1. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain $m$ and $b$.

$$(-4, -5) \text{ and } (-8, 4)$$

A. $m \in [-5.25, 0.75]$ $b \in [12.7, 14.1]$

B. $m \in [2.25, 6.25]$ $b \in [19.8, 22.7]$

C. $m \in [-5.25, 0.75]$ $b \in [-2.2, 2]$

D. $m \in [-5.25, 0.75]$ $b \in [-17.3, -13.9]$

E. $m \in [-5.25, 0.75]$ $b \in [11.7, 12.2]$

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2. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{5x-3}{3} - \frac{9x+5}{2} = \frac{-3x+9}{5}$$

A. $x \in [-0.3, 0.3]$

B. $x \in [-4.5, -0.7]$

C. $x \in [-6.6, -4.2]$

D. $x \in [-9.5, -7]$

E. There are no real solutions.

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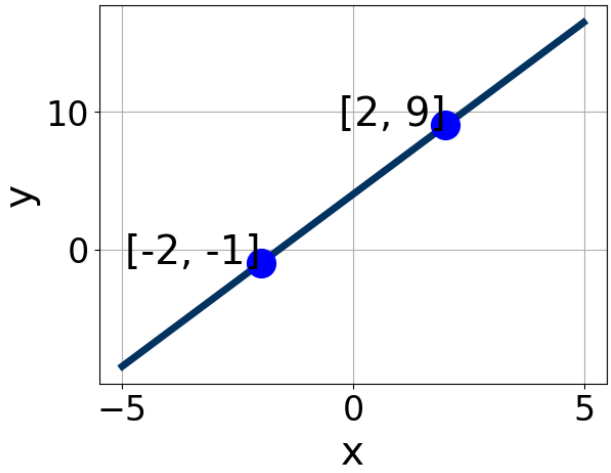
3. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and $C$.




A. $A \in [-2.5, 3.5]$, $B \in [-0.1, 1.48]$, and $C \in [3, 7]$

B. $A \in [-2.5, 3.5]$, $B \in [-1.5, -0.51]$, and $C \in [-5, -3]$

C. $A \in [4, 6]$, $B \in [1.69, 3.53]$, and $C \in [8, 15]$

D. $A \in [4, 6]$, $B \in [-2.2, -1.73]$, and $C \in [-10, -7]$

E. $A \in [-9, -3]$, $B \in [1.69, 3.53]$, and $C \in [8, 15]$

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4. Solve the equation below. Then, choose the interval that contains the solution.

$$-13(5x + 19) = -3(-11x + 15)$$

A. $x \in [1.3, 3.6]$

B. $x \in [-9.8, -7.4]$

C. $x \in [-2.7, -1.6]$

D. $x \in [-3.3, -2.5]$

E. There are no real solutions.

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5. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain $m$ and $b$.

Parallel to $5x - 7y = 14$ and passing through the point $(10, 3)$.

A. $m \in [-1.26, -0.2]$ $b \in [8.8, 10.4]$

B. $m \in [0.07, 1.38]$ $b \in [-8.4, -4.5]$

C. $m \in [0.07, 1.38]$ $b \in [3.2, 6.7]$

D. $m \in [1.02, 1.91]$ $b \in [-4.3, -1.4]$

E. $m \in [0.07, 1.38]$ $b \in [-4.3, -1.4]$

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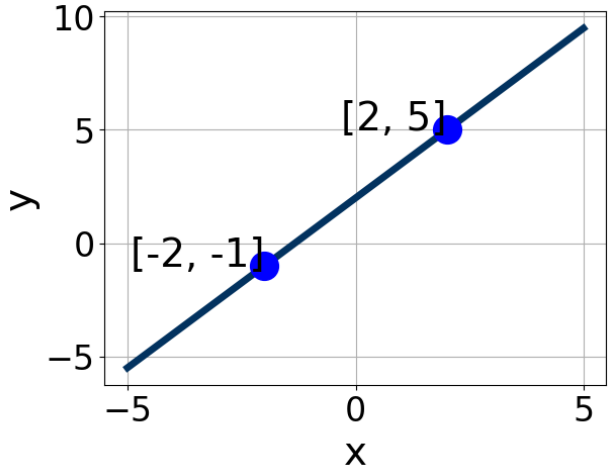
6. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and $C$.




A. $A \in [-4.5, -2.5]$, $B \in [1.58, 2.76]$, and $C \in [3.79, 5.34]$

B. $A \in [-2.8, 0.7]$, $B \in [0.02, 1.16]$, and $C \in [0.61, 2.29]$

C. $A \in [1, 5.7]$, $B \in [-3.02, -1.46]$, and $C \in [-6.48, -3.39]$

D. $A \in [-2.8, 0.7]$, $B \in [-1.76, -0.98]$, and $C \in [-3.88, -1.87]$

E. $A \in [1, 5.7]$, $B \in [1.58, 2.76]$, and $C \in [3.79, 5.34]$

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7. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain $m$ and $b$.

Parallel to $5x - 7y = 10$ and passing through the point $(3, 2)$.

A. $m \in [1.06, 2.08]$ $b \in [-0.6, 0.04]$

B. $m \in [0.14, 0.72]$ $b \in [-0.6, 0.04]$

C. $m \in [-0.75, -0.33]$ $b \in [4.03, 4.42]$

D. $m \in [0.14, 0.72]$ $b \in [-1, -0.92]$

E. $m \in [0.14, 0.72]$ $b \in [-0.13, 0.34]$

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8. Solve the equation below. Then, choose the interval that contains the solution.

$$-6(18x - 14) = -10(5x + 7)$$

A. $x \in [2.61, 2.82]$

B. $x \in [0.18, 0.34]$

C. $x \in [-0.04, 0.22]$

D. $x \in [-0.6, -0.1]$

E. There are no real solutions.

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9. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain $m$ and $b$.

$$(10, 4) \text{ and } (9, -7)$$

A. $m \in [9, 13]$ $b \in [106, 110]$

B. $m \in [9, 13]$ $b \in [-107, -103]$

C. $m \in [9, 13]$ $b \in [-6, -2]$

D. $m \in [-15, -8]$ $b \in [92, 93]$

E. $m \in [9, 13]$ $b \in [-23, -13]$

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10. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-4x + 9}{3} - \frac{-3x - 4}{8} = \frac{-5x + 6}{4}$$

A. $x \in [-0.5, 3.5]$

B. $x \in [-8.86, -5.86]$

C. $x \in [-4.43, -1.43]$

D. $x \in [-25, -22]$

E. There are no real solutions.

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